

**Amendments to the Claims:**

Please cancel claims 4, 6, 12-14, 19 and 20, and amend claims 1, 5, 7, 8 and 15 as shown in the following listing of claims. This listing of claims will 5 replace all prior versions, and listings, of claims in the application.

1 4. (canceled).

1 5. (currently amended) The impedance transformation network of claim 1-4  
2 wherein the shunt capacitor is a chip capacitor.

1 6. (canceled).

1 7. (currently amended) The impedance transformation network of claim 1-6  
2 wherein the additional shunt capacitor is a surface mount technology capacitor.

1 8. (currently amended) A method of transmitting an output signal to an  
2 output node, the method comprising:

3 receiving the output signal at an input node; and  
4 providing a fixed impedance transformation between the input  
5 node and the output node; and

6 providing a variable impedance transformation between the input  
7 node and the output node using a varactor device connected in series on a signal  
8 path from the input node to the output node, the variable impedance  
9 transformation being provided in response to a power level of the output signal to  
10 transform a first impedance at the output node to a second impedance at the input  
11 node,

12 wherein the fixed impedance transformation is provided by at least  
13 one transmission line on the signal path and at least one shunt capacitor connected  
14 to the signal path, the fixed impedance transformation being further provided by at  
15 least one additional transmission line on a second signal path between a supply  
16 voltage terminal and the signal path, the second signal path at least partially being  
17 used to supply DC bias voltage to the varactor device.

1 9. (previously presented) The method of claim 8 wherein the varactor device  
2 includes a ferroelectric varactor connected in series on the signal path.

1 10. (canceled).

1 11. (original) The method of claim 8 wherein the receiving of the output signal  
2 included receiving a radio frequency output signal at the input node.

1 12. (canceled).

1 13. (canceled).

1 14. (canceled).

1 15. (currently amended) A power amplifier comprising:  
2 an amplifier configured to provide an output signal; and  
3 an impedance transformation network including an input node and  
4 an output node, the input node being connected to the amplifier, the output node to  
5 be connected to a load, the impedance transformation network further including a  
6 varactor device connected in series on a signal path from the input node to the  
7 output node, the varactor device being configured to provide a variable impedance  
8 transformation in response to a power level of the output signal to transform a  
9 load impedance at the output node to a desired impedance in a forward direction at  
10 the input node, the forward direction being from the input node to the output node,  
11 wherein the impedance transformation network comprises a fixed  
12 impedance transformation circuit connected to the input node and the varactor  
13 device, the fixed impedance transformation circuit including at least one  
14 transmission line on the signal path and at least one shunt capacitor connected to  
15 the signal path, the fixed impedance transformation circuit further including at  
16 least one additional transmission line on a second signal path between a supply  
17 voltage terminal and the signal path and at least one additional shunt capacitor  
18 connected to the second signal path, the second signal path at least partially being  
19 used to supply DC bias voltage to the varactor device.

1 16. (previously presented) The power amplifier of claim 15 wherein the  
2 varactor device includes a ferroelectric varactor connected in series on the signal  
3 path.

1 17. (canceled).

1 18. (original) The power amplifier of claim 15 wherein the amplifier is  
2 configured to provide a radio frequency output signal.

1 19. (canceled).

1 20. (canceled).